

State Vet Highlights



Animal Services Division
Office of the State Veterinarian
Perry J. Durham, DVM

Before We Really Start: What Do You Do?

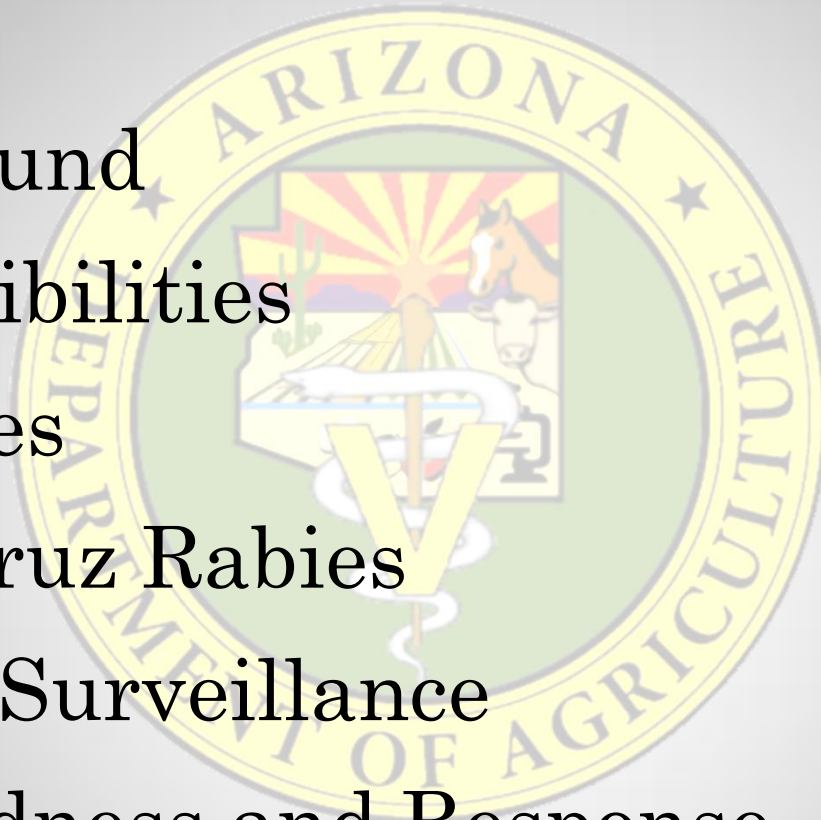
Or why I don't tell people I'm a vet

I'm the culmination of medical and business systems analyst with a wide-ranging background in information technology & process.



Highlights to Cover...

- Background
- Responsibilities
- Resources
- Santa Cruz Rabies
- Disease Surveillance
- Preparedness and Response
- Other Public Health Activities



Territory Of Arizona

TITLE LIX. Stock Laws.

CHAPTER THREE.

STOCK AND SANITARY LAW.

[APPROVED MARCH 10, 1887.]

2798. (SEC. 2.) The governor shall nominate, and by and with the advice and consent of the legislative council, appoint a skilled veterinary surgeon for the territory, who at the date of such appointment, shall be a graduate in good standing of a recognized college of veterinary surgery, and who shall hold his office for the term of two years, unless sooner removed by the commission; *provided*, that **the salary of said veterinary surgeon shall, on no account, exceed the sum of two thousand dollars per annum, and fifteen (15) cents per mile for each mile** necessarily traveled in the discharge of his duties, and the territorial auditor is hereby authorized to draw his warrant on the territorial treasurer for the said amounts, properly verified, to be paid out of the live stock sanitary fund hereinafter provided for.

Before entering upon the duties of his office, the territorial **veterinarian shall take and subscribe an oath to faithfully perform the duties of his said office, and shall execute a bond to the territory of Arizona in the sum of three thousand (\$3,000) dollars**, with good and sufficient sureties, conditioned for the faithful performance of the duties of his office, which bond and sureties thereto shall be approved by the governor, and said bond, together with his oath of office, shall be deposited in the office of the secretary of the territory.

<http://www.in2013dollars.com/>

1887 dollars in 2014 dollars

\$3,000 in 1887 → \$72,952.44 in 2014

Between 1887 and 2014, the United States saw inflation at an average rate of 2.54% per year.

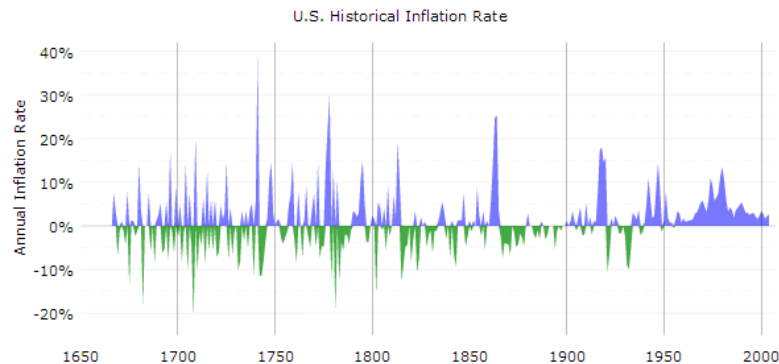
Inflation Calculator

Amount: \$ 3000

Start year: 1887

End year: 2014

Calculate



Source: This information is from the Bureau of Labor Statistic's annual [Consumer Price Index \(CPI\)](#), which was established in 1913. Inflation data from 1665 to 1912 is sourced from a [historical study](#) conducted by political science professor Robert Sahr at Oregon State University.

Statutory Obligations

Fiftieth Legislature - Session 1
Senate House

Chapter 11 OWNERSHIP, CONTROL AND REGULATION OF LIVESTOCK

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Animal Services Division
Definitions
Division council; members
General powers and duties; civil penalties
Powers and duties relating to
Control of animal diseases; \n
Suspension, revocation or te
Cooperation with United State
Officers and inspectors; con
Counterfeiting
Disposition of monies
State veterinarian; qualificati
Private practice prohibited
Acquisition and use of sodiur
and local pounds

Article 2

National Animal Identification
Arizona Beef Council
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Powers and duties of council
Acceptance of grants and g
Payments to organizations
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Failure to pay; violation; clas
Exemptions
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Article 3
Brands and Marks
Adoption and recording of br

Chapter 12 LIVESTOCK INJURY AND DISEASES

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Duties and Liabilities of Railroads
Report of killed or crippled livestock; inspection and removal; violation; classification;
definition
Stock crossings required in fences enclosing rights of way; violation; classification
Liability for injury to livestock on unfenced railroad; contributory negligence
Liability of railroad for negligent injury of certain animals; injury or death as prima
facie evidence of negligence; liability of owner for intentional damage

Article 2

Seizure of Equine in Poor Physical Condition
Petition of seizure; notice of seizure; lien for expenses; forced sale; disposition of
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Petition of seizure; notice of seizure; lien for expenses; forced sale; disposition of
proceeds; nonliability of state; neglect or cruel treatment of equine; civil penalty;
legal representation

Article 3

Federal cooperation and agreements
Entry upon premises to inspect animals; condemnation of diseased animals

Article 4

Brucellosis Control
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Brucellosis test and vaccinations
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Article 3

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Labeling of horsemeat; requirements
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Article 1

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Improperly maintaining a stallion or jack; classification; seizure and sale; expenses
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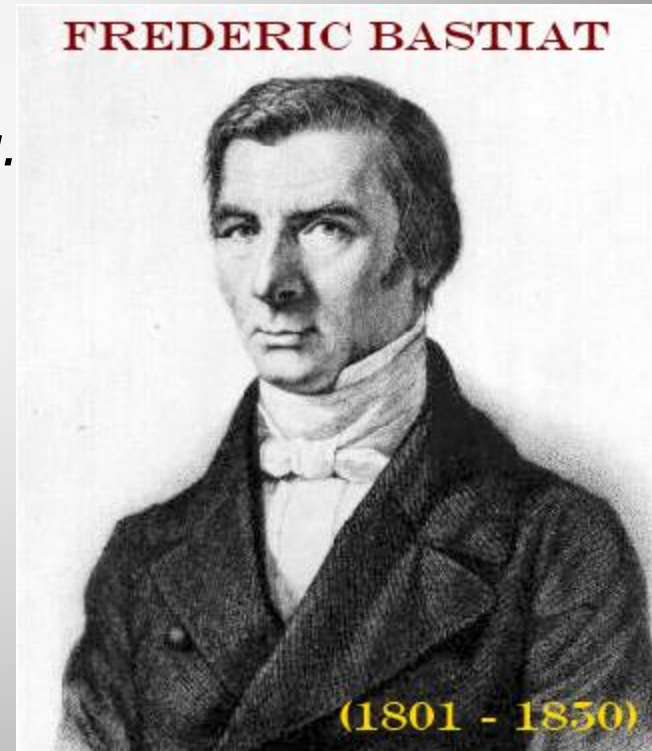
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The Law

“Life, liberty and property do not exist because men have made laws. On the contrary, it is the fact that life, liberty and property existed beforehand that caused men to make laws in the first place.”

“See if the law takes from some persons what belongs to them, and gives it to other persons to whom it does not belong. See if the law benefits one citizen at the expense of another by doing what the citizen himself cannot do without committing a crime.”



Statutory Responsibilities - SVO

- Disease Control
 - Animal & Public Health Concerns
- Slaughter Inspection
- Govt Operated Animal Shelters



SERRP - ADA

- ESF#2 - Communications Annex
- ESF#5 - Emergency Management Annex
- ESF#6 - Mass Care, Housing and Human Services Annex: Sheltering Appendix
- ESF#6 - Mass Care, Housing and Human Services Annex: Sheltering Appendix - Animal Protection - Attachment B
- ESF#7 - Resource Support Annex
- ESF#8 - Health and Medical Services Annex
- ESF#8 - Health and Medical Services Annex: Public Health Appendix
- ESF#10 - Oil and Hazardous Material Response Annex
- ESF#11 - Agriculture and Natural Resources Annex
 - ESF #11 – Foreign Animal Disease Appendix
- ESF#12 - Energy Annex
- ESF#14 - Recovery and Mitigation Annex
- BIO#1 - Biological Incident Annex: Influenza Pandemic Incident Appendix
- DRI#1 - Drought Incident Annex
- NRI#1 - Nuclear/Radiological Incident Annex: Palo Verde Nuclear Generating Station Appendix



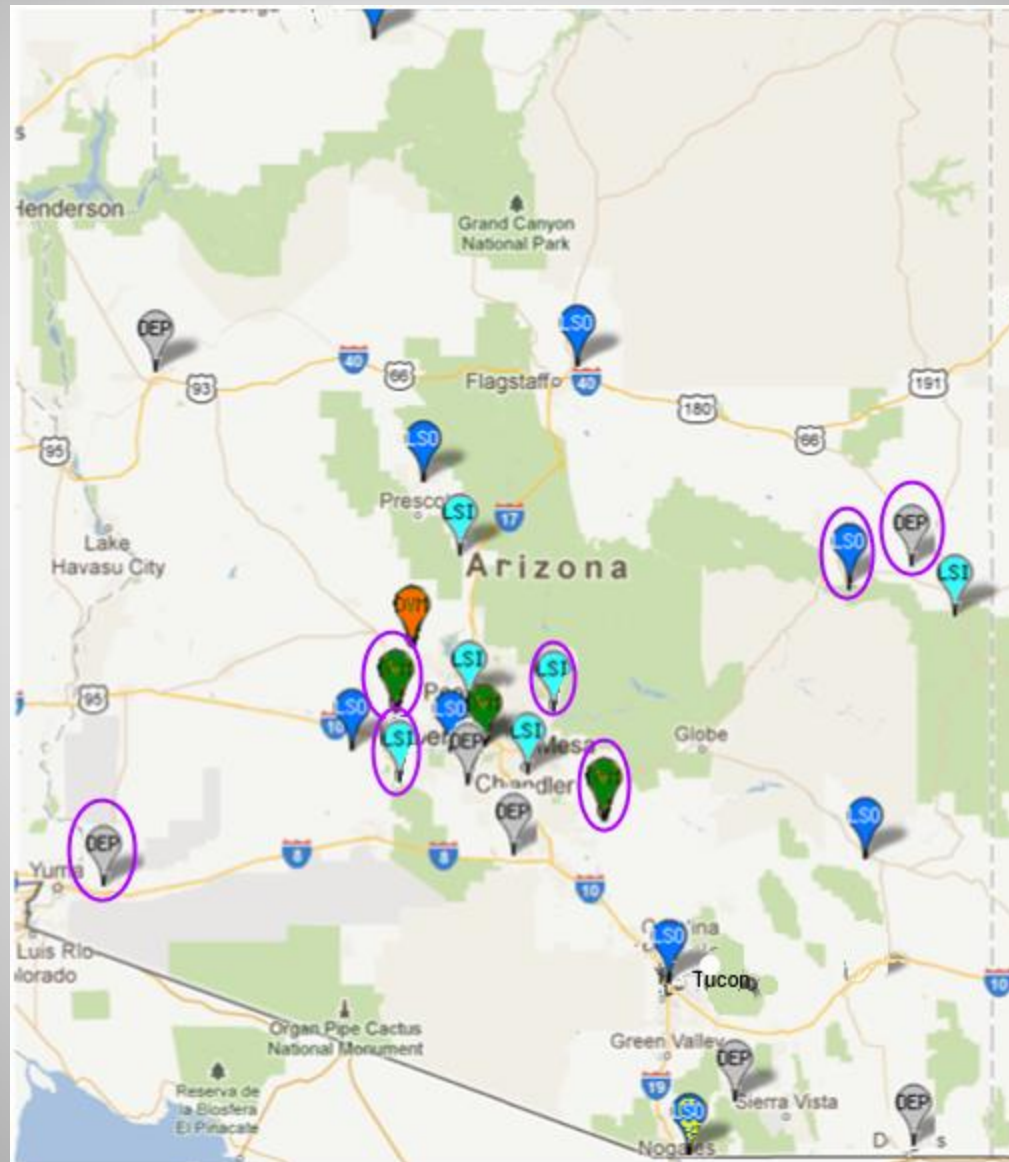
Statutory Obligations – Livestock Services

Livestock Dominion/Inspection

- ARS 3-1336(A) ... inspected by a livestock officer or inspector for health, brands and marks before they are slaughtered, sold, purchased, driven, transported, shipped or conveyed...
- ARS 3-1332(D) ...shall arrange for the inspection of the livestock and inspect such livestock within forty-eight hours
- Stray, Theft, Ownership Dispute
- Welfare
 - ARS 3-1721 Equine in Poor Physical Condition
 - ARS 13-2910 Animal Cruelty



ADA – SVO Today



Meat & Poultry Inspection

“Equal to or Better”

Staffing

- Animal Health Food Inspection Program Manager (1)
- Public Health Sanitarian Supervisor I (1)
- Public Health Sanitarian II (10)



Staffing Profile

Position/Person	Age	Yrs To Retirement
VACANT DLI		
DLI	77	Now
DLI	70	Now
DLI	62	5 yrs (3yrs)
DLI	63	6.5 yrs (2yrs)
DLI	56	10.5 yrs
DLI	51	12 yrs
DLI	49	12.5 yrs
DLI	44	15.5 yrs
DLI	43	16.5 yrs
DLI	39	17 yrs.

RETIRED LSI		
LSI	58	Now
LSI	47	4 yrs
LSI	51	10.5 yrs
LSI	33	17.5 yrs

LSO	67	Now
LSO	65	Now
LSO	65	Now
LSO	63	Now
LSO	53	4 yrs
LSO*	48	13 yrs
LSO	42	16.5 yrs

Position/Person	Age	Yrs To Retirement
OFC STAFF	60	now
OFC STAFF	64	1 yr (65)
OFC STAFF	64	1 yr (65)
OFC STAFF	57	1 yr
OFC STAFF	33	20.5 yrs
OFC STAFF	31	22.5 yrs
VACANT ASV		
SV	51	14.5 yrs

MPI	71	Now
MPI	67	Now
MPI	64	Now
MPI	62	3 yrs
MPI	55	4 yrs
MPI	59	5 yrs
MPI	57	5.5 yrs
MPI	59	6 yrs
MPI	52	8 yrs
MPI	40	20 yrs

USDA NASS DATA 2013

- 175,000 - beef cows on the ranges of AZ
 - 22,000 - replacement heifers
- 190,000 - dairy cows
 - 73,000 - replacement dairy heifers
- 272,000 - cattle in feedlots
- 140,000 - sheep and lambs
- 27,000 - Angora goats
- 3,000 - dairy goats
- 25,000 - meat goats
- 170,000 - total hogs (2012)

Equine Numbers are little harder to come by. There's a 2005 national study that was done by Deloitte Consulting. And the U of A published one in late 2001. Their numbers put total horses between 167,000 to 199,000 involving 48,000 to 64,000 households with an estimated in the \$1.3B (as in billion) range.

Number of Farms: 15,500

AVG Size: 1,684 acres

Total Land in Farms: 26,100,000 acres



Vehicles

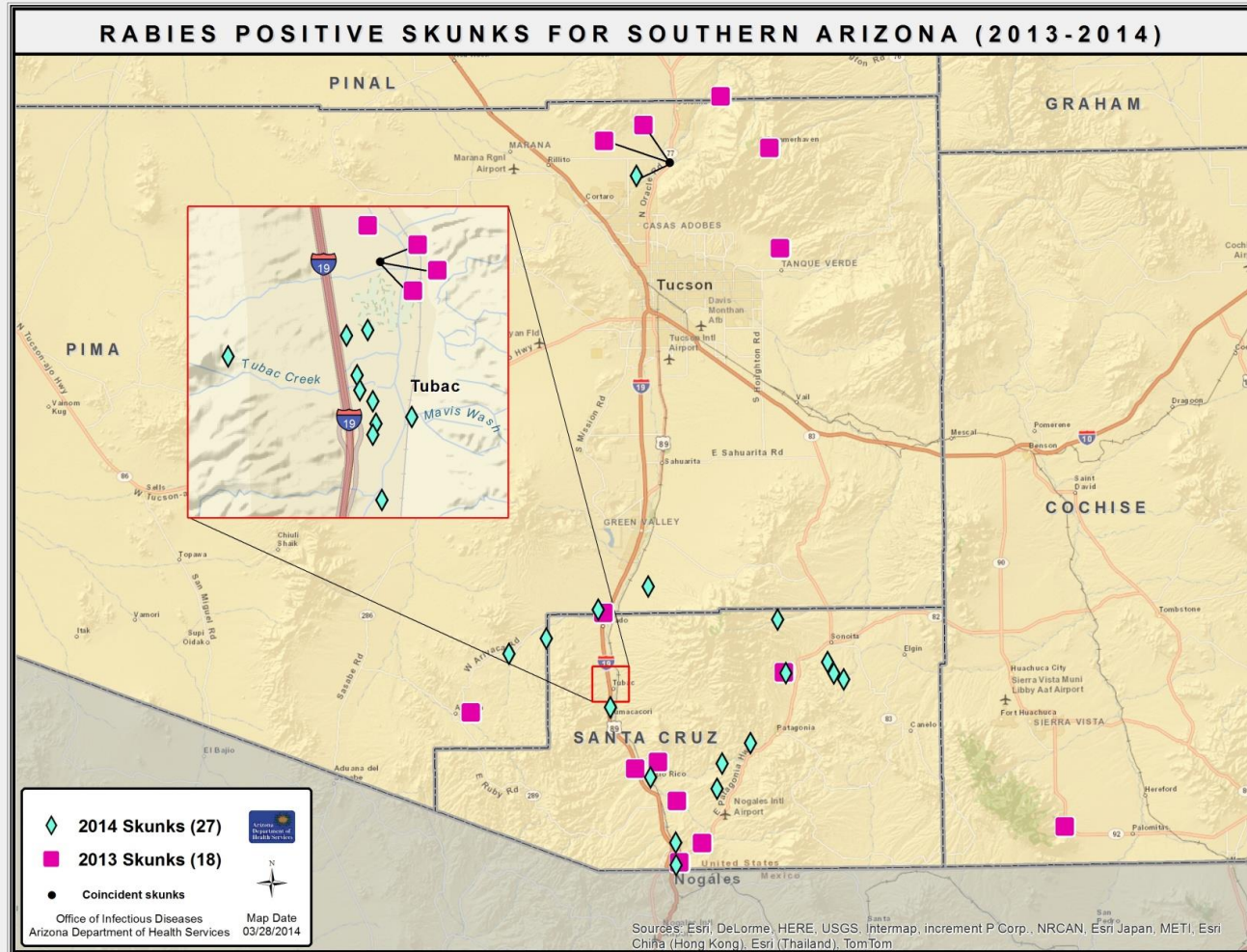


Mileage	Notes
154,855	
199,057	
111,741	
192,363	
16,321	Replacement
206,184	
151,745	
134,975	
158,776	
126,201	
124,706	
158,150	
91,406	
30,061	Replacement



Staffing & Capacity Changes

- SVO Additions
 - Chris McCarthy, DVM - Asst St Vet (Disease Surveillance)
 - Sue Gale, DVM - Asst St Vet (Public Health)
 - Cyndi Hilgen, CVT – St Vet Admin Asst
- New Foreign Animal Disease Diagnosticians
 - Anne Justice-Allen, DVM - AGFD
 - Chris McCarthy, DVM - ADA
- USDA APHIS VS – “*Elvis has left the building*”



Santa Cruz Rabies Quarantine Livestock Plan

Subtasks

- Study #79: Contact SCC Animal Control and Board of Supervisors
- Study #80: Develop Public Service Announcements (educational materials)
- Study #81: Define Livestock Exposure Risks
 - Study #89: Donnie & Cyndi Geo-Locating Interpretation Training
- Study #82: Considerations for Livestock Working Dogs
- Study #83: Considerations for Barn Cats
- Study #84: Outreach Efforts
 - Study #87: Santa Cruz County Licensed Vets
 - Study #88: Sift AZVMEB List
- Study #85: Rabies Quarantine Responder List
- Study #86: Considerations for Livestock Movement Control

The Players

The screenshot shows a web browser window with the address bar displaying https://redmine.ranchoflastresort.com/projects/svo-case-management/wiki/SCC_. The browser's address bar also shows a DuckDuckGo search engine. The page is a Redmine Wiki page titled "SCC Rabies Responder List" under the "SVO Case Management" project. The page is dated "as of 2014-04-07". The page content is organized into sections: "Governmental", "ADA", "AGFD", and "AZDHS". Each section lists contact information for various individuals, including their names, titles, email addresses, and phone numbers. The "Governmental" section lists Santa Cruz County contacts. The "ADA" section lists contacts for Leatta McLaughlin, Perry Durham, Chris McCarthy, CAPT Donnie Drake, LT Darrel Hale, and Ron Hirsch. The "AGFD" section lists contacts for Anne Justice-Allen, Mark Hart, Lynda Lambert, and Robert Fink. The "AZDHS" section lists Michael Fink. The page also features a search bar, navigation tabs (Overview, Activity, Issues, New issue, Gantt, Calendar, News, Documents, Wiki, Files, Settings), and a sidebar with a "Wiki" section containing links to "Start page", "Index by title", and "Index by date".

SCC Rabies Responder List - S...

https://redmine.ranchoflastresort.com/projects/svo-case-management/wiki/SCC_ DuckDuckGo

Home My page Projects Help Logged in as Perry My account Sign out

SVO Case Management

Search: SVO Case Management

Overview Activity Issues New issue Gantt Calendar News Documents Wiki Files Settings

SVO Cases Wiki Edit Watch Lock Rename Delete History

SCC Rabies Responder List

as of 2014-04-07

Governmental

Santa Cruz County

- LT Jose L Pena Jr - Supervisor, Animal Care and Control (ASD-SVO Primary Contact)
jpena@santacruzcountyaz.gov
520.761.7860 (ofc)

ADA

- Leatta McLaughlin - Assoc Dir, Animal Services Division
lmclaughlin@azda.gov
602.330.1779 (mob)
- Perry Durham - St Vet
pdurham@azda.gov
602.708.0932 (mob)
- Chris McCarthy - Asst St Vet
cmccarthy@azda.gov
602.316.3873 (mob)
- CAPT Donnie Drake - Supervising Livestock Officer
ddrake@azda.gov
602.717.0353 (mob)
- LT Darrel Hale - Regional Supervisor, Livestock Services
dhale@azda.gov
602.463.0552 (mob)
- Ron Hirsch - Inspector, Livestock Services
rhirsch@azda.gov
520.345.1498 (mob)

AGFD

- Anne Justice-Allen, DVM - State Wildlife Health Specialist
ajjustice-allen@azgfd.gov
623.252.7685 (mob)
- Mark Hart - Regional PIO
mhart@azgfd.gov
- Lynda Lambert - PHX PIO
llambert@azgfd.gov
- Robert Fink - Wildlife Program Supervisor
rfink@azgfd.gov

AZDHS

- Michael Fink - Epidemiology Specialist 2
mfink@azdhs.gov
602.964.8888 (f)

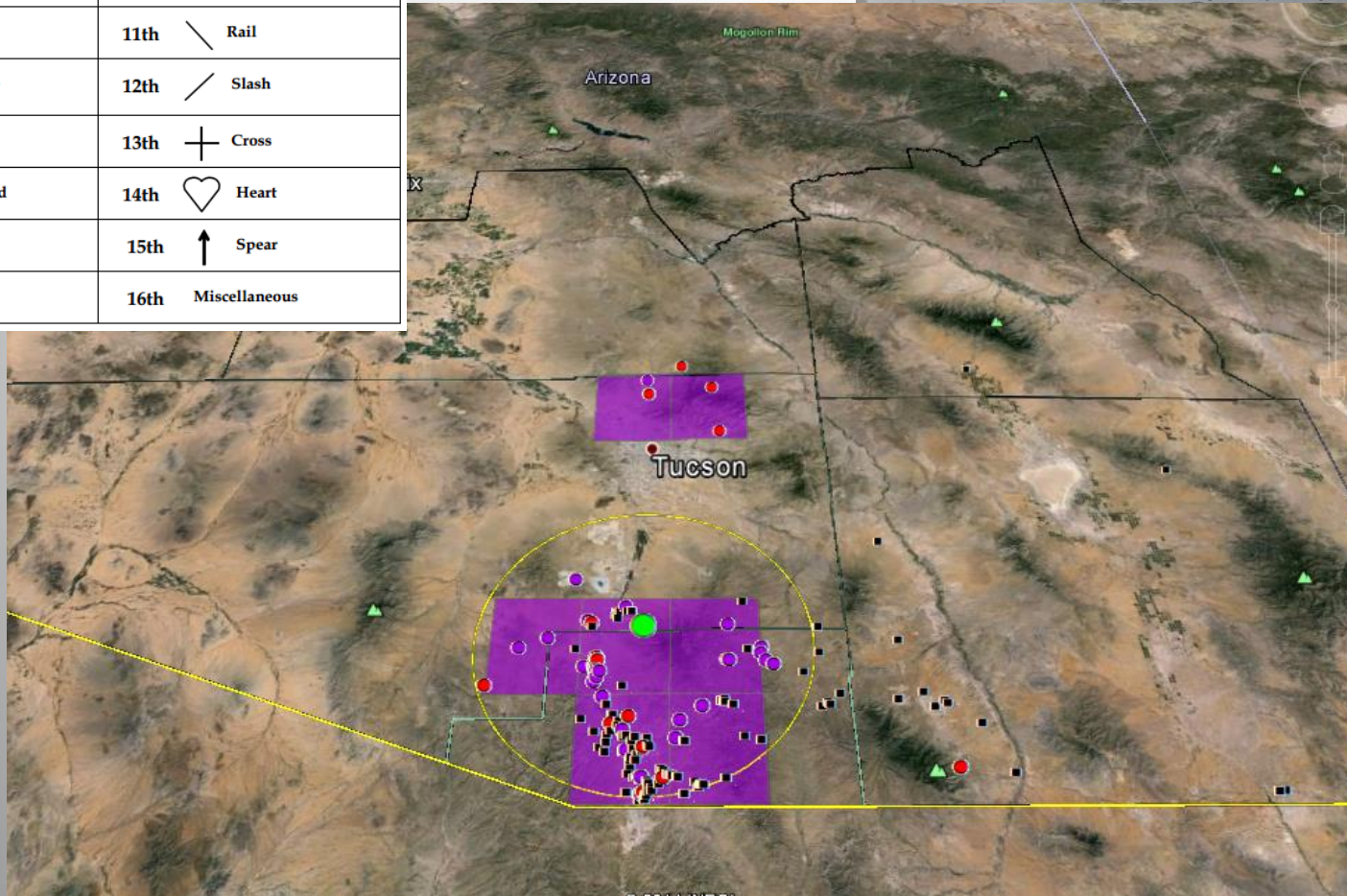
Wiki

Start page
Index by title
Index by date

Geo-Spatial Analysis

NON-ALPHABETICAL BRAND ORDER

1st <input type="checkbox"/> Box	9th <input type="checkbox"/> Double Bar
2nd <input type="checkbox"/> Open Box	10th <input type="checkbox"/> Mill-Iron
3rd <input type="checkbox"/> Bench	11th <input type="checkbox"/> Rail
4th <input type="checkbox"/> Triangle	12th <input type="checkbox"/> Slash
5th <input type="checkbox"/> Rafter	13th <input type="checkbox"/> Cross
6th <input type="checkbox"/> Diamond	14th <input type="checkbox"/> Heart
7th <input type="checkbox"/> Rocker	15th <input type="checkbox"/> Spear
8th <input type="checkbox"/> Bar	16th <input type="checkbox"/> Miscellaneous



RECEIPT DATE 7/2/12 No. 769387

RECEIVED FROM Iron Horse \$ 609

FOR RENT 705054 DOLLARS

ACCOUNT ☐ CASH ☐ CHECK ☐ MONEY ORDER ☐ CREDIT

PHONE 8214558

TRANSPORTER Iron Horse

LINE OUT UNUSED BRANDS OR ADD BRANDS NOT PRINTED

BRAND NUMBER	REGISTERED BRAND	LOCATION	EAR MARK	BRAND EXPIRES	STEERS	HFRS	COWS
11841	Via	RS		5-Aug-2009	3		

STEERS 3 HFRS COWS

BULLS BULL STR HFR

PREMISES Iron Horse

INSPECTED SLAUGHTER, PA - PASTURE

SS AND HEAD COUNT

Secondary Brands

Brand	Location

DESCRIPTION OR BREED OF SHIPMENT Orange Shes

TOTAL HEAD SHIPPED

Total Head Subject to Fee @ 20¢ per head \$ Total Fees Due \$

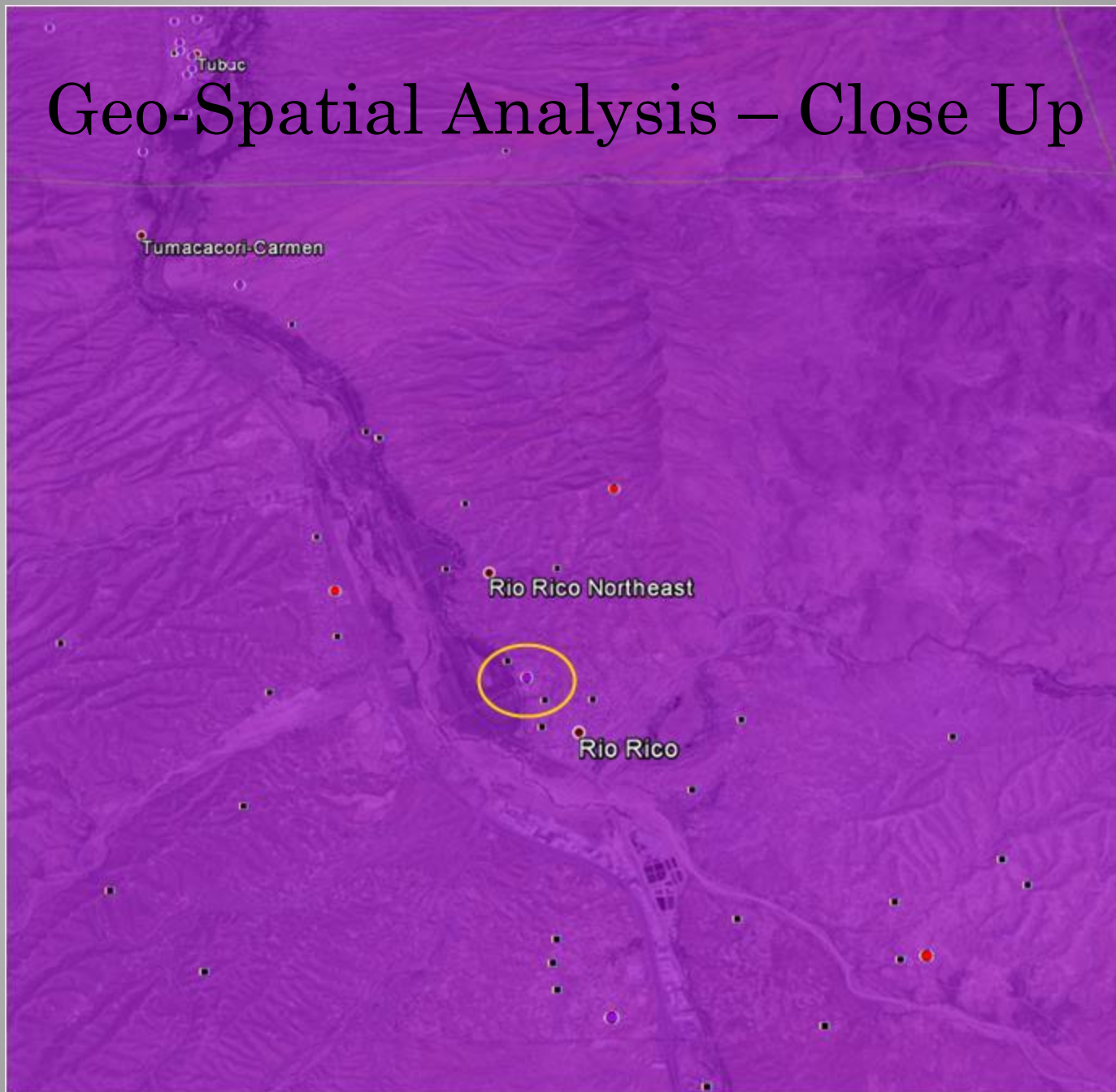
(Note: Shipping pasture to pasture is not subject to fee. LOC codes above must both read "PA" to qualify.)

I hereby certify under penalty of perjury that all information placed on this certificate by the undersigned is true and correct and that I am the legal owner or duly authorized agent of the legal owner of the above described animals.

OWNER'S AGENT

RECORD GOLDENROD TRANSPORTER

Geo-Spatial Analysis – Close Up



Education & Outreach

The Wobbly Horse

And Cautions For Humans Around Them



Office of the State Veterinarian Bulletin

RABIES DETECTION FOR LIVESTOCK OWNERS

Precautions

Rabies is an always fatal disease!

Rabies infections are not uncommon in other parts of the world. Most people in other parts of the world who get infected with rabies have been bitten by an infected animal. Getting the infected saliva from an infected animal into an open wound or mucous membrane of eyes, nose, or mouth can also lead to infection. Rabies is not spread by contact with feces, blood, or urine.

Therefore wearing gloves and preferably double-gloving is imperative in situations involving possible rabies exposure. Whether there is a need for other equipment is dependent on the task/s being performed. In most situations for field staff, gloves should suffice.

REMEMBER: The goal is to not allow the virus (primarily from the infected animal's saliva) to come into contact with skin, eyes, or mucous membranes. Skin which looks intact generally has multiple microscopic abrasions that the virus can use to enter the body.

Effective vaccines are available for livestock. Please discuss the matter with your private veterinarian.

General Disease Information

Behavior and Situational Awareness

Many livestock rabies exposure cases occur because of the natural curiosity of the livestock involved.

SCENARIO

- A rabid skunk becomes debilitated and disoriented then it wanders around in a lot, pasture, or section of range with livestock within sight or hearing.
- Some of the livestock will run away. However, some will actually come to investigate the occurrence. (How many times have you seen a group of heifers run over and try to sniff the barn cat when it wanders through the lot? It's a process of natural curiosity.)
- And how do they investigate? It's usually with their noses stuck down on top of that rabid skunk!
- So if the skunk bites, the odds are good it will bite the curious critter (cow, goat, let's use horse for the remainder of this scenario) somewhere on that horse's nose or muzzle.
- Then because of the location of the bite wound (close to significant nerves and nearer the brain) transmission of the virus will be effective and fairly quickly infective.

Arizona Livestock Statistics (Source: USDA NASS 2018)

272,000 headlot cattle
190,000 dairy cows
177,000 horses (past, Deloitte Consulting)
176,000 range beef cows
170,000 hogs (pigs)
140,000 sheep and lambs
78,000 replacement dairy heifers
27,000 Angora goats
15,000 meat goats
22,000 replacement heifers
3,000 dairy goats



Livestock Services Contact Information

Associate Director – Leatta McLaughlin,
lmcLaughlin@azda.gov, 602-542-7186

State Veterinarian – Dr. Perry Durham,
pdurham@azda.gov, 602-542-4293

Supervising Livestock Officer/Central
Regional Supervisor – Captain Donnie
Drake, ddrake@azda.gov, 602-542-0799

Northern Regional Supervisor –
Lieutenant Randy Servis,
rservis@azda.gov, 602-542-0799

Southern Regional Supervisor –
Lieutenant Darrel Hale, dhale@azda.gov,
602-542-0799

Self-Inspection – zai@inspection@azda.gov,
602-542-6407

Dispatch – 602-542-0799 or 1-800-794-
0305 x3

Horse Hauling Permit – 602-542-6406

Brands – 602-542-0347



Arizona Department of Agriculture

Animal Services Division

Livestock Services



Jack Peterson
Interim Director

Leatta McLaughlin
Associate Director

Dr. Perry Durham
State Veterinarian

Capt. Donnie Drake
Supervising Livestock Officer

Mission
To regulate and support Arizona
agriculture in a manner that encourages
farming, ranching, and agribusiness while
protecting consumers and natural
resources

Quality...From the Land to You



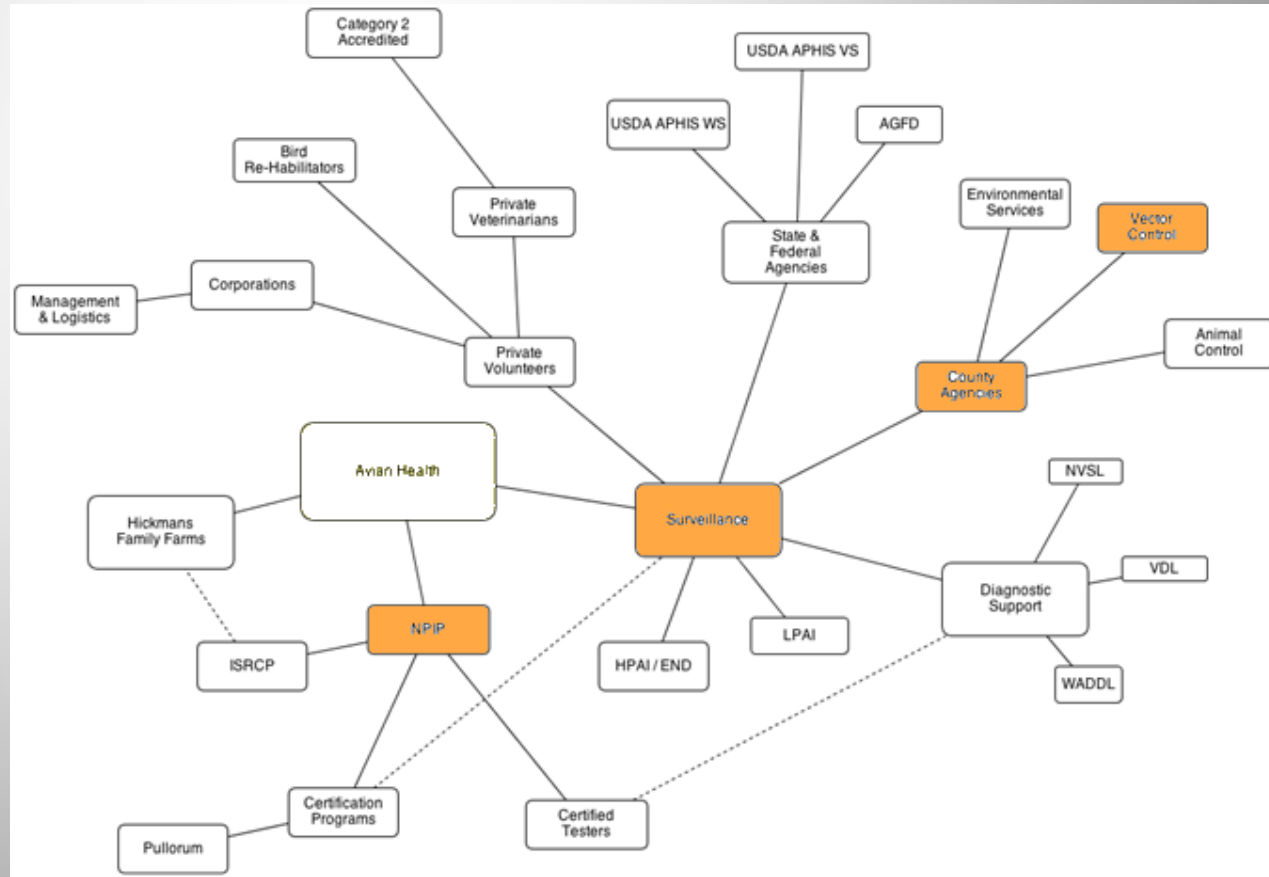
Staffing & Capacity Changes

- SVO Additions
 - Chris McCarthy, DVM - Asst St Vet (Disease Surveillance)
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 - Cyndi Hilgen, CVT – St Vet Admin Asst
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 - Chris McCarthy, DVM - ADA
- USDA APHIS VS – “*Elvis has left the building*”

Surveillance

NPIP (as an example)

- Preparedness
 - 9 CFR 56 - Control of H5/H7 Low Pathogenic Avian Influenza
 - 56.10 Initial State Response and Containment Plan (ISRCP)
- Certification Programs
- Volunteer Contacts
 - *"Backyard Brigade"*
 - some individuals have identified themselves as willing to participate in creating an AZ program



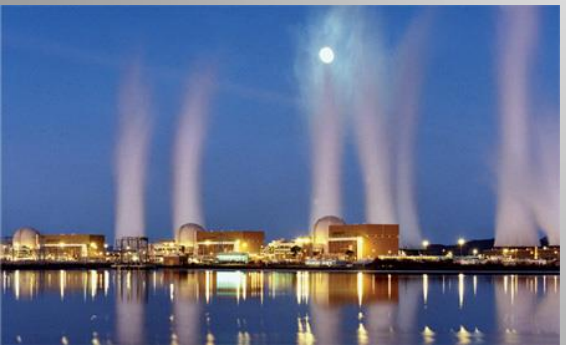


Preparedness and Public Health Vet

The agency has a major role in protecting both Arizona citizens and our agricultural industry from the potential effects of a release of radioactive materials from the Palo Verde Nuclear Generating Station (PVNGS)...



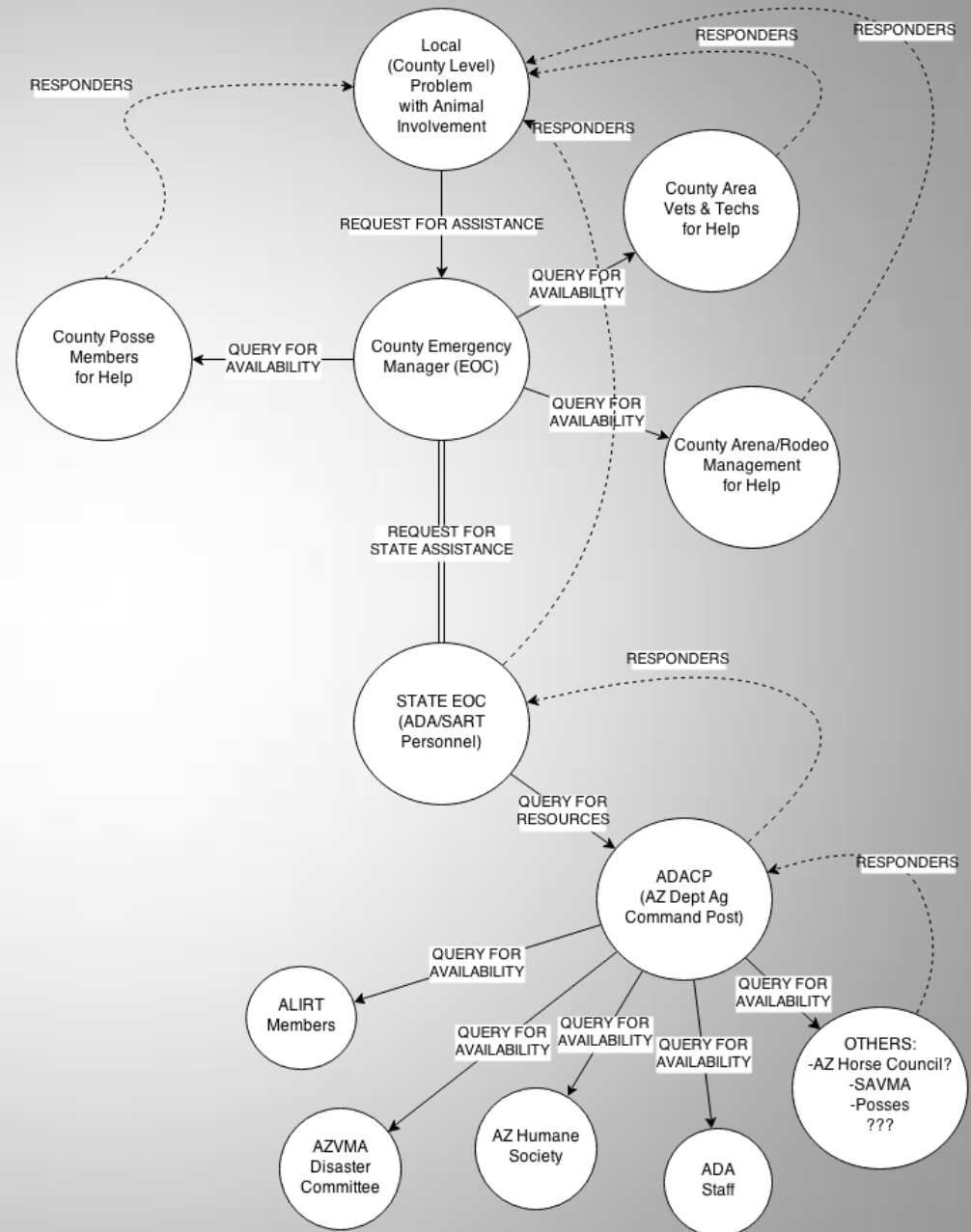
- (Re-)build emergency preparedness and response capacity.
- Develop training materials, plans, and programs.
- Develop/grow partners/partnerships with stakeholders.
- Build community response capabilities
- Review, update, and organize department plans and capabilities for disaster and emergency response.
- Coordinate and participate in drills and training related to PVNGS; agro-terrorism, training, and education related to Incident Command System and National Incident Management System.
- Coordinate agency public health efforts as they relate to both our citizens and agricultural commodities which are consumed by them.
- Address specific animal health concerns as a result of an incident in order to minimize the effect on both the animals and the public which consumes animal origin food products, and food and fiber as well.



SART/CART



Arizona State Animal Response Team



ALERT

ARIZONA LIVESTOCK INCIDENT RESPONSE TEAM



Public Health Infrastructure

SVO

- Reporting (AAC R3-2-402 – Mandatory Reporting)
- Rabies Vax (ARS 11-1002 & AAC R3-2-409)
- Livestock Quarantine (AAC R3-2-408)

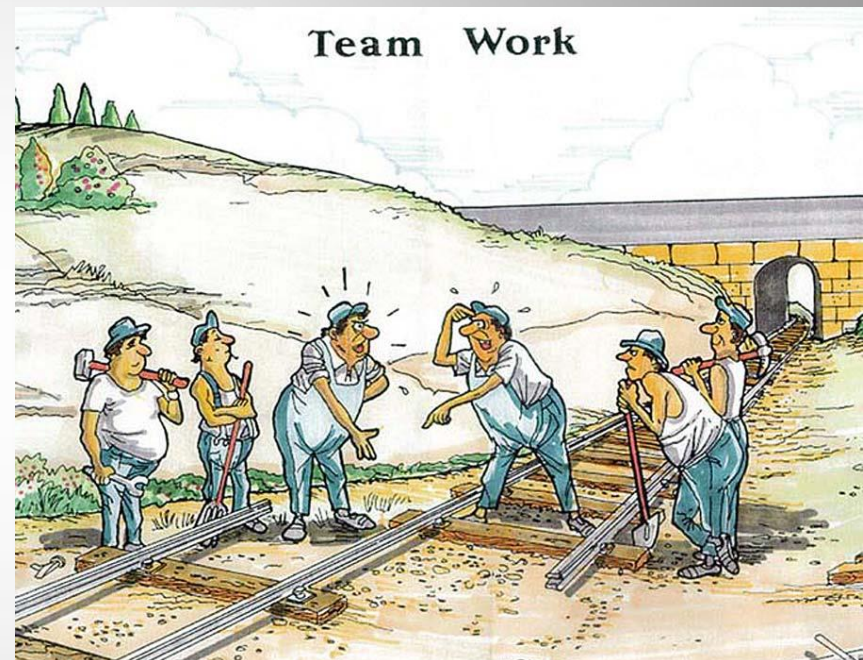
DHS-PHL / U of A-VDL

- Lab Services
- Risk Assessment
- Public Information

Board of Supervisors

- County Health/Law Enforcement

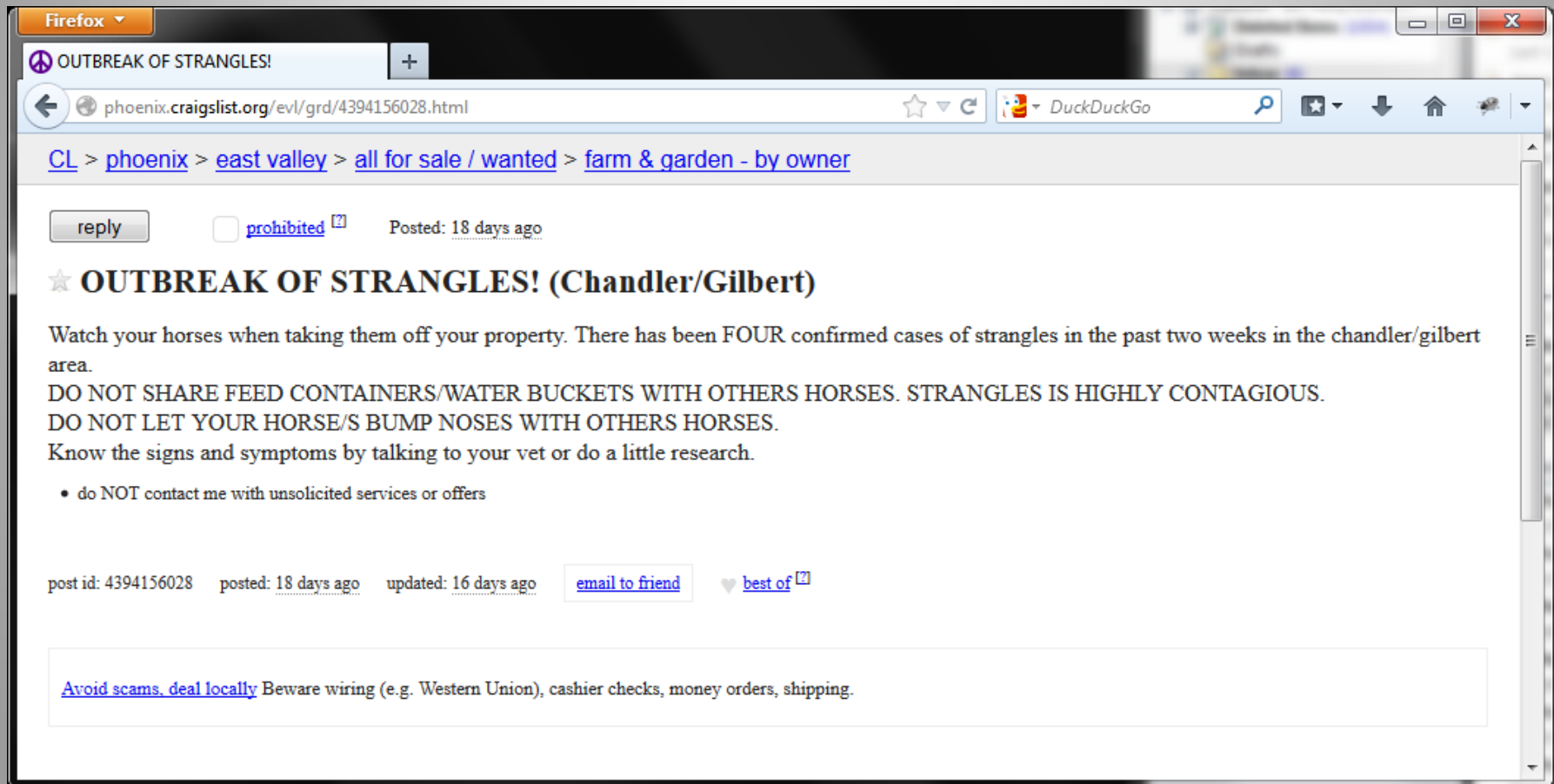
- Animal Control
- Risk Assessment – Local Epi's



Public Health Infrastructure – Social Media

SVO

- Reporting (AAC R3-2-402 – Mandatory Reporting)
- Rabies Vax (ARS 11-1002 & AAC R3-2-409)
- Livestock Quarantine (AAC R3-2-408)



Topicals in Public Health

RMSF

Rabies – Santa Cruz County

Q Fever

WNV

Plague

Food-Borne





Tickborne Diseases of the U.S.

- Anaplasmosis
- Babesiosis
- Borrelia miyamotoi
- Colorado tick fever
- Ehrlichiosis
- Heartland virus infection
- Lyme
- Powassan disease
- Rickettsia parkeri rickettsiosis
- Rocky Mountain spotted fever (RMSF)
- STARI (Southern tick-associated rash illness)
- Tickborne relapsing fever (TBRF)
- Tularemia
- 364D rickettsiosis

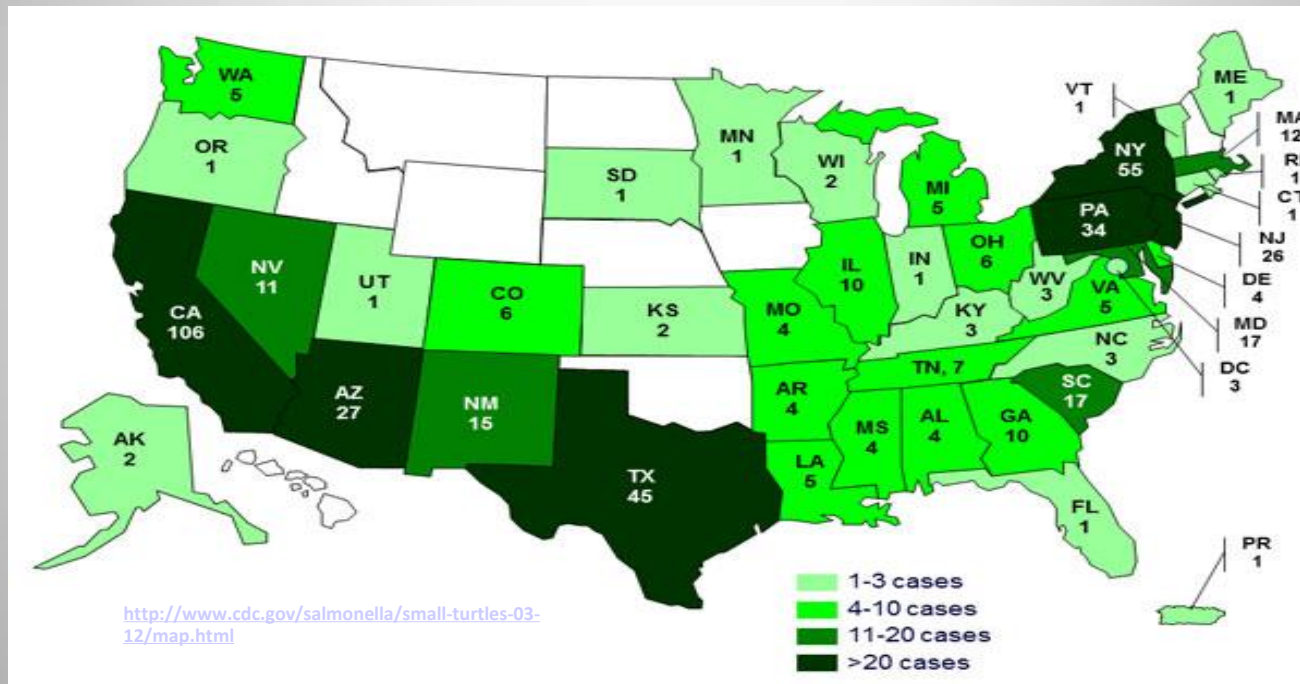
Symptoms of Tickborne Illness

Fever/chills: With all tickborne diseases, patients can experience fever at varying degrees and time of onset.

Aches and pains: Tickborne disease symptoms include headache, fatigue, and muscle aches. With Lyme disease you may also experience joint pain. The severity and time of onset of these symptoms can depend on the disease and the patient's personal tolerance level.

Rash

Map of cases of Salmonella illness associated with small turtles



“Life isn’t fair. But it presents you with opportunities...



...You decide what to do with them.”

“Life isn’t fair. But it presents you with opportunities...



...You decide what to do with them.”